



# PHIMS & IUID: Adding IUID Compliance to an Existing System

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Naval Surface Warfare Center, Carderock  
Division (NSWCCD), Philadelphia  
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# Project: PHIMS IUID Implementation

1

**Challenge:** Add IUID Capability to PHIMS (Project History Inventory Management System) used by NSWCCD kitting and staging facilities at Philadelphia, Norfolk, and San Diego.

**Scope:** Provide the ability for these facilities to use IUID marks to manage material, to mark legacy items, and to register items.

**Result:** These facilities function as central locations for “opportunistic marking” of IUID-eligible equipment that passes through before it is distributed to the fleet.

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# NSWCCD Philadelphia

- Receives and stages material for both DON and Joint Service programs
- Material is assembled and shipped to alteration installation teams around the world
- PHIMS is the in-house Automated Inventory System used by the facilities to manage material:
  - Web-based warehouse management system
  - Ties together material and personnel across the three staging facilities
  - Material is tracked from entry to exit and at all points within the facilities
  - Intermec CK-61 handheld computers with integrated barcode scanners that scan both linear barcodes and 2D data matrix marks
  - Wireless technology ensures speed, accuracy and flexibility

***As a major staging facility, NSWCCD needed the ability to mark and process IUID-marked items***

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# Implementing IUID

IUID capability was added to PHIMS in 2008 over a period of 6 months using existing Automatic Identification Technology (AIT) equipment and Quick Compliance Tool Suite (QCTS) Tools. The following capabilities were added to PHIMS:

- Ability to identify items by IUID mark and track items using UII
- Marking capability: items can be marked using either pre-printed or facility-generated labels
- Items locally marked are processed for registration via the QCTS registration process

***QCTS Tools are modular and can be easily incorporated into many material and inventory management systems. They are Navy-owned and available at [www.qcts.org](http://www.qcts.org).***



# Tracking Items With the UII

**Phims 4**

Organization: NSWCCD  
User name: peritt  
Current Alt: MA-XXXX  
Current Site: PHL  
Page Loaded: 02:17 PM 05/27/2008

**to 0% of stock.**  
[View Label Status](#)  
[Hide WH Status](#)

**Build Kits**  
**Put Away**  
**Issue Kit**  
**Issue Item**  
**Issue Serial**  
**Transfer Kit**  
**Transfer Item**  
**Transfer Serial**  
Status at 02:15 PM  
**Refresh Status**

System ▾ Proj Man ▾ Warehouse ▾ Reports ▾ Admin ▾ Help ▾

**Proj. Man.: Add Issue Task**

Alt: MA-XXXX  
NSN/Part Number: C/P/S (16331) 1 SDFGSDFGSDFG  
Description: COMPUTER, 32-BIT PC AT  
Site: PHL  
Qty Owned: 1  
UII: D55555P553

Qty to Issue:   
Issue To:   
Activity:   
Comment:

**Add** **Catalog Details** **Cancel**

- ❑ IUID mark is scanned; item is tracked in database by UII





# Marking Capability

**Phims 4** System ▾ Proj Man ▾ Warehouse ▾ Reports ▾ Admin ▾ Help ▾

**View Item Details**

Organization: NSWCDD  
User name: perrit  
Current Alt: MA-XXXX  
Current Site: PHL  
Page Loaded: 02:25 PM 05/27/2008  
[to 0% of stock.](#)  
[View Label Status](#)  
[Hide WH Status](#)

**Build Kits**  
**Put Away**  
**Issue Kit**  
**Issue Item**  
**Issue Serial**  
**Transfer Kit**  
**Transfer Item**  
**Transfer Serial**  
Status at 02:23 PM  
**Refresh Status**

<b>Cage</b>	16331	<b>Site</b>	PHL
<b>Manufacturer</b>	LOCKEED MARTIN	<b>Location</b>	
<b>Part Number</b>	1	<b>Site</b>	RECEIVING
<b>Serial Number</b>	FGSDFGSDFG	<b>Shelf</b>	
<b>Description</b>	COMPUTER, 32-BIT PC AT	<b>Quantity</b>	1
<b>Bar Code</b>	SER-000006772		
<b>Ull</b>	D55555P556		

☐ Hazmat  
☒ Serialized  
☒ UID Required  
☐ Shelf Life

**Available** **List Versions**

<b>Site</b>	<b>Owned By</b>	<b>Quantity</b>
PHL	MA-XXXX	1

**Reserved for Issue or Site Transfer**

<b>Site</b>	<b>Owned By</b>	<b>Quantity</b>

**Reserved for Kits**

<b>Site</b>	<b>Owned By</b>	<b>Quantity</b>

**Local Unit Cost** \$ 5434.43  
**UI standard** EA  
**UI multiplier** 1  
**UI local** EA  
**Condition Code** None Set

**Print Labels** (PHL Receiving- Phims2)  
**Print UID Labels** (PHL Receiving- Phims2)

**Receive This Item**

**Equivalent Items**

Items **Sort By** ▾

[NSN 7020-01-532-5346](#)  
[C/P \(16331\) 63A158097P1](#)  
[C/P/S \(16331\) 1 DSEFGSDFGSDFGHAA](#)  
[C/P/S \(16331\) 1 ASDFAASDFAAAAAAA](#)  
[C/P/S \(16331\) 1 JOHNOHN](#)

**Jump to page:**  **Go**

1 2 3 4 5 6 ... 12 [Next](#)

☐ Check box flags item to be marked by warehouse personnel

☐ Ability to generate IUID labels in-house

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# Marking Capability (cont'd)

- PHIMS can use pre-printed labels; when marking, pre-printed label is scanned to associate with item

A screenshot of the PHIMS 4 web application interface. The top navigation bar includes tabs for System, Proj Man, Warehouse, Reports, Admin, and Help. The main content area is titled "Admin : Order Pre-Printed Labels" and contains a form with three input fields: "Type of Labels", "Size of Labels", and "Quantity to Reserve". Below these fields are three buttons: "Submit Order", "Reset", and "Close". On the left side of the interface, there is a sidebar with user information (Organization: NSWCCD, User name: permit, Current Alt: MA-XXXX, Current Site: PHIL, Page Loaded: 02:41 PM 05/27/2008) and a list of actions: "Build Kits", "Put Away", "Issue Kit", "Issue Item", "Issue Serial", "Transfer Kit", "Transfer Item", "Transfer Serial", and "Refresh Status". A red banner at the top of the sidebar indicates a "pre-ordered label" and provides a link to "View Label Status". A black arrow points from the "Put Away" action in the sidebar to the "Submit Order" button in the main form.

- PHIMS electronically generates label orders
- System tracks serial numbers and ensures no duplicates are ordered.



# Registration Capability

- PHIMS generates output files of marked items for registration
- Non Registered UIDs report generates listing of items that are marked as UID Required but not registered

**Phims 4**  
Organization: NSWCCD  
User name: peritt  
Current Alt: MA-XXXX  
Current Site: PHL  
Page Loaded: 02:29 PM 05/27/2008

[View Label Status](#)  
[Hide WH Status](#)

**Build Kits**  
**Put Away**  
**Issue Kit**  
**Issue Item**  
**Issue Serial**  
**Transfer Kit**  
**Transfer Item**  
**Transfer Serial**  
Status at 02:27 PM  
**Refresh Status**

**System** ▾ **Proj Man** ▾ **Warehouse** ▾ **Reports** ▾ **Admin** ▾ **Help** ▾

**Reports : Non Registered UIDs**

Show any UID where the ULI is required but is not yet registered.

Download Type:

**Download** **Close**

- Report can be in HTML or Excel format





# PHIMS and IUID

## Result:

- PHIMS now fully IUID capable
  - Receive items already IUID marked
  - Track items in PHIMS by UII
  - IUID mark previously unmarked legacy items
  - Perform IUID Registry lookup
  - 24/7 status reporting

## Conclusion:

- QCTS tools were initially developed and tested on PHIMS
  - QCTS Tools are being successfully used in a working environment

**POC:** Program Manager (215) 897-1412

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